

WHAT IS CLAIMED IS:

1. A method of communicating voice transmissions to a receiving device from a transmitting device, comprising:

5 using an encryption selection key value to select an initial encryption algorithm using an encryption selection table stored at the transmitting device, the encryption key value being a function of at least one or both of a periodic key value and a public variable key value;

10 encrypting the initial voice transmissions from the transmitting device using the initial encryption algorithm, the transmitting device being capable of encrypting voice transmissions using a plurality of encryption methods; and

15 transmitting information associated with the voice transmissions in an encrypted form from the transmitting device.

20 2. The method of Claim 1 and further comprising: receiving a periodic key value at the transmitting device;

receiving a public variable key value at the transmitting device;

25 calculating an index value as a function of the periodic key and public variable key values; and

calculating the encryption key value as a function of the index value.

30 3. The method of Claim 2 wherein the key value is an integer equal to the units place of the index value.

transmitting data associated with the voice
5 communication using the next encryption method to the
receiving device; and

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6. The method of Claim 4 wherein the warning switch signal comprises a predetermined tone detectable by the receiving device.

9. The device of Claim 7 and further comprising a timer operable to communicate with the central processing unit, the device operable to switch to a next encryption method as indicated in the encryption selection table by incrementing the key value and retrieving the next encryption algorithm associated with the incremented key value, the device operable to switch to the next encryption algorithm upon a signal received by the central processing unit from the timer such that the device is operable to periodically change from one of the plurality of encryption methods to a different encryption method during the course of a single voice communication session.

10. The device of Claim 9 wherein the device is further operable to transmit a warning switch signal to the receiving device prior to transmitting information encrypted using the next encryption method.

11. The device of Claim 9 wherein the device is operable to switch to a next encryption method as indicated in the encryption selection table by incrementing the key value and retrieving the next encryption algorithm associated with the incremented key value such that the device is operable to periodically change from one of the plurality of encryption methods to a different encryption method during the course of a single voice communication session.